

20-8507 #20-8508



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

POSITIVE RECALL

EFFECTIVE 20/01/20 AUTH 547

RELEASED 8 DATE 20/03/20

649.5010

Job Sheet 212476



Part No: 649.5010

Job Qty: 4 pcs

Part Name: Deflector



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 8/25/20

Job Tracking No:

Due Date: 9/14/20

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV D IPP REV C RQ 13/10/8 VERIFIED BY:JLM

Ship Via:

REV. C

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard Setup Hrs	Run Hrs	Workcenter/Supplier	Sign-off
100	Bandsaw - 1	4 pcs		9/1/20	0.00	0.40	Bandsaw - 1	JK 20-8-27
110	HAAS 4 Axis - B4B	4 pcs		9/2/20	1.00	6.67	HAAS - 1 - B4B	
							HAAS - 2 - B4B	
							HAAS - 3 - B4B	JK 20-8-27
							HAAS - 4 - B4B	
120	QC 2	4 pcs		9/2/20	0.00	0.00	QC 2 - 1	
							QC 2 - 12	
							QC 2 - 14	
							QC 2 - 17	
							QC 2 - 19	
							QC 2 - 2	
							QC 2 - 20	
							QC 2 - 22	
							QC 2 - 23	
							QC 2 - 25	JK
							QC 2 - 32	
							QC 2 - 33	
							QC 2 - 35	
							QC 2 - 39	
							QC 2 - 4	
							QC 2 - 40	
							QC 2 - 44	
							QC 2 - 45	
							QC 2 - 48	
							QC 2 - 49	
							QC 2 - 50	
							QC 2 - 51	
							QC 2 - 52	
							QC 2 - 57	
							QC 2 - 62	
							QC 2 - 63	

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 813 632-5200
Email: sales@dartaero.com
www.dartaeropca.com

Date: 09/28/20



Container No: S296957

Part: 649.5010

Job No: 212476

Serial No/Batch: S296957

Inspector:

Exp Date:

Instructions: Various STC's

Plex 8/25/20 8:10 AM Dart.lajeunesse.marie

P.T.O.

				QC 2 - 8	
				QC 2 - 66	
				QC 2 - 64	
				QC 2 - 65	
				QC 2 - 5	
				QC 2 - 71	
				QC 2 - 73	
				QC 2 - 69	
				QC 2 - 76	
				QC 2 - 86	
				QC 2 - 83	
130	QC 8	4 pcs	9/2/20	0.00 0.00	QC 8 - 12
					QC 8 - 14
					QC 8 - 17
					QC 8 - 20
					QC 8 - 25
					QC 8 - 3
					QC 8 - 32
					QC 8 - 33
					QC 8 - 35
					QC 8 - 39
					QC 8 - 4
					QC 8 - 44
					QC 8 - 45
					QC 8 - 49
					QC 8 - 58
					QC 8 - 8
					QC 8 - 9
					QC 8 - 68
					QC 8 - 67
					QC 8 - 1 (A)
					QC 8 - 47
					QC 8 - 40
					QC 8 - 52
					QC 8 - 23
					QC 8 - 57
					QC 8 - 76
					QC 8 - 61
					QC 8 - 66
					QC 8 - 73
					QC 8 - 82
140	Outsource - 4 - Anodize	4 pcs	9/14/20		ATG001-VC 8
150	Packaging 2-1 - Receive - B4B	4 pcs	9/14/20	0.00 0.00	Packaging 2 - 1 - B4B
					Packaging 2 - 2 - B4B
					Packaging 2 - 3 - B4B
					Packaging 2 - 5 - B4B
					Packaging 2 - 4 - B4B
					Packaging 2 - 6 - B4B
					Packaging 2 - 7 - B4B
					Packaging 2 - 8 - B4B
					Packaging 2 - 9 - B4B
					Packaging 2 - 10 - B4B
					Packaging 2 - 11 - B4B
					Packaging 2 - 12 - B4B
					Packaging 2 - 13 - B4B
					Packaging 2 - 14 - B4B
					Packaging 2 - 15 - B4B
					Packaging 2 - 16 - B4B
					Packaging 2 - 17 - B4B

20/08/29

2020-09-21

SEP 23 2020

				Packaging 2 - 18 - B4B	
				Packaging 2 - 19 - B4B	
				Packaging 2 - 20 - B4B	
				Packaging 2 - 21 - B4B	
				Packaging 2 - 22 - B4B	
				Packaging 2 - 23 - B4B	
				Packaging 2 - 24 - B4B	
				Packaging 2 - 25 - B4B	
				Packaging 2 - 26 - B4B	
				Packaging 2 - 27 - B4B	
				Packaging 2 - 28 - B4B	
				Packaging 2 - 29 - B4B	
				Packaging 2 - 30 - B4B	
				Packaging 2 - 31 - B4B	
				Packaging 2 - 32 - B4B	
				Packaging 2 - 33 - B4B	
				Packaging 2 - 34 - B4B	
				Packaging 2 - 35 - B4B	
				Packaging 2 - 36 - B4B	
				Packaging 2 - 37 - B4B	
160	QC 6	4 pcs	9/14/20	0.00 0.00	QC 6 - 9
Please see Pat D for Positive Recall signed off and Eng signed off by Eng				QC 6 - 68	
				QC 6 - 61	
				QC 6 - 40	
				QC 6 - 81	
				QC 6 - 82	
180	Packaging 3-1 - Stock - B4B	4 pcs	9/14/20	0.00 0.00	Packaging 3 - 1 - B4B
				Packaging 3 - 2 - B4B	
				Packaging 3 - 3 - B4B	✓
				Packaging 3 - 4 - B4B	
				Packaging 3 - 5 - B4B	
				Packaging 3 - 6 - B4B	
				Packaging 3 - 7 - B4B	
				Packaging 3 - 8 - B4B	
				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	

DAS
82
9-89

SEP 30 2020

DAS
80
9-89SEP 30 2020
CCKOOR

				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
				Packaging 3 - 37 - B4B	DAS
190 QC 21 - SA	4 pcs	9/14/20	0.00 0.00	QC 21 - SA - 21	21 9-29
				QC 21 - SA - 70	
				QC 21 - SA - 9	
				QC 21 - SA - 77	

SEP 30 2020

Part Op 100 - (Bandsaw) Cut Blanks at 40.00"

Descriptions: 110 - HAAS1-1 (HAAS CNC Vertical Machine) 1-Machine per folio FB215 DWG REV: D FOLIO

REV: AA 2- deburr and break all sharp edges

120 - (QC2- Inspect parts off machine FAI/FAIB) QC2- Inspect parts off machine FAI/FAIB

130 - (QC8- Inspect parts - second check) QC8- Inspect parts - second check

140 - (Outsource process-Anodize per QSI017 4.1.10.1) Issue P/O to ATG: 46995 HARD ANODIZE COLOR

BLACK, AND PRIME AS PER DWG 649.5000 REV. D

150 - (Receive & Inspect for Damage & Mat'l Certs) Receive & Inspect for Damage & Mat'l Certs

160 - QC6- All purchased or subcontracted products

180 - (Identify as per dwg & Stock Location: _____) Identify as per dwg & Stock Location: _____ ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***

190 - (QC21- Final Inspection - Work Order Release) QC21- Final Inspection - Work Order Release

Job BOM				
Part / Item	Component Name	Quantity	Operation	Container
649.5010E	Deflector	13.3332 ft (3.3333 ea)	100-Bandsaw - 1	<u>5173191</u>

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
100-Bandsaw - 1	649.5010E	13	200	0

Part Specifications
Specifications could not be found.

Plex 8/25/20 8:10 AM Dart.lajeunesse.marie

Entered: JR Date: SEP 30 2020



NCR No. 20-8507 **WORK ORDER NON-CONFORMANCE / ROUTE UPDATE**

Route update only ☐

Job: <u>212476</u> Part No. <u>649 5010</u>		DISPOSITION Rework ☐ Scrap ☒ Use-as-is ☐		DEPARTMENT/PROCESS Skid-tube ☐ Machining ☒ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐						
Date: <u>20-8-28</u>		Sequence #: <u>110</u>		QTY Affected: <u>1</u>		MRB (QS1042)				
Description Work Order Deviation <u>1 part is scrap</u> <u>- part is .100 short</u> <u>- task bad origin</u>				Disposition <u>Scrap + replace</u>		<u>PD 20-8-28</u> Completed By <u>SL 20-8-28</u> Lead hand / Supervisor <u>De 20-08-28</u> QC / QA Coordinator <u>PD 20-8-28</u>				
Root Cause Operator ☒ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY <table style="width:100%; border: none;"> <tr> <td style="width:33%; border: none;"> ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled </td> <td style="width:33%; border: none;"> ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function </td> <td style="width:33%; border: none;"> ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☒ Off-set/Set-up </td> </tr> </table>						☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled	☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function	☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☒ Off-set/Set-up
☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled	☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function	☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☒ Off-set/Set-up								
		Other/Details:								

Steven Drouin

From: Jacob Becker
Sent: Tuesday, August 25, 2020 1:54 PM
To: Steven Drouin
Cc: David Shepherd; Marc Bellavance
Subject: RE: Production request

Due to the circumstances related to a difference in windshield installation (screw in versus riveted design), it is acceptable to produce revision C for this customer so they receive the correct hardware and the correct components compatible with the older windshield design.

Regards,

JACOB BECKER
Lead Sustaining Engineer

DART AEROSPACE
T 1 760 509-1639
M 1 760 691-9108

From: Steven Drouin <sdrouin@dartaero.com>
Sent: Tuesday, August 25, 2020 9:09 AM
To: Jacob Becker <jbecker@dartaero.com>
Subject: Production request

Hi Jacob

Production would want to make the following parts to a old rev to the following items.

649.5010 REV. C , and currently at REV. D in Approved
649.5212 REV. A and currently at Rev. C in Approved
649.4701 REV. C and currently at Rev F in Approved
649.4811 REV. A and Currently at rev E in Approved

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

NOTES: UNLESS OTHERWISE SPECIFIED

△ MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12.

△ FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK;
PRETREAT PRC-DESOTO PR-148 ADHESION PROMOTER;
PRIME IAW MIL-P-23377J TYPE I CLASS N; 1-2 MIL MAX.

3. DE BURR AND BREAK ALL SHARP EDGES.

4. IDENTIFY IAW MPP-120. LASER ETCH P/N AND REVISION, 12 PT. CENTURY GOTHIC.

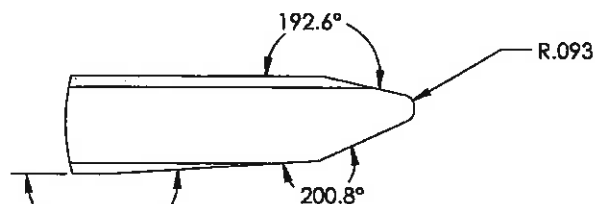
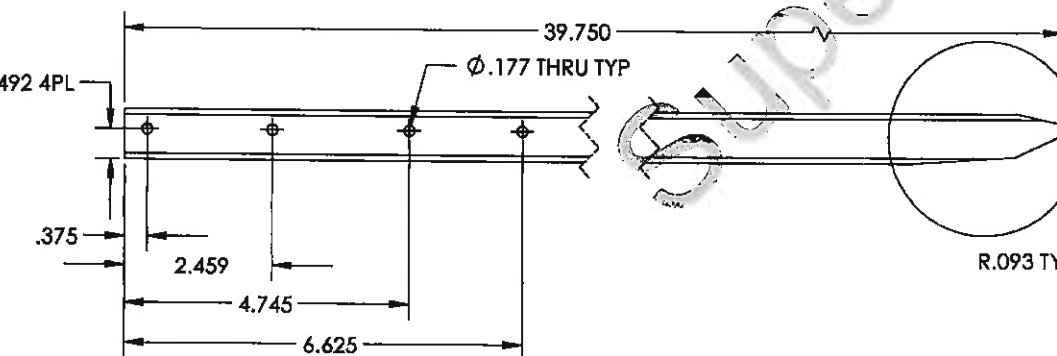
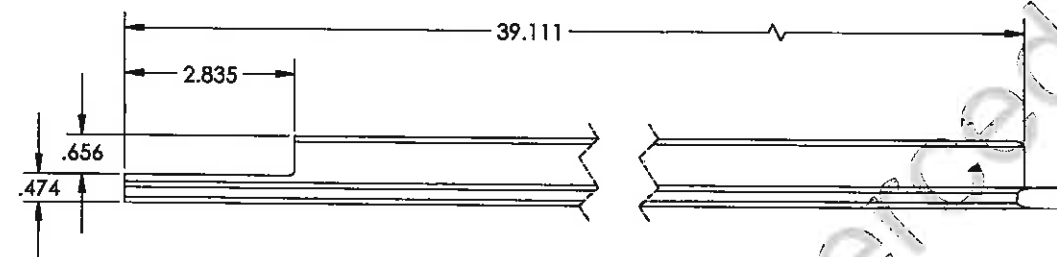
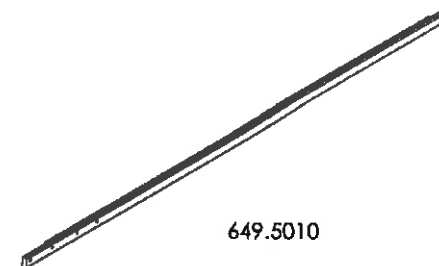
5. ALL DIMENSIONS SHOWN PRIOR TO FINISH.

△ PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5010 DEFLECTOR.SLDPRT, LAST MODIFIED 04-16-12.

△ PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5012 DEFLECTOR.SLDPRT, LAST MODIFIED 11-03-11.

△ PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5013 DEFLECTOR.SLDPRT, LAST MODIFIED 04-16-12.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION: P12		MJA
ARC	INITIAL RELEASE	11-03-11	P. BRAVO
A	INCORPORATED ECH 03422 AND 03478	04-16-12	P. BRAVO
B	INCORPORATED ECH 03554	05-02-12	P. BRAVO
C	INCORPORATED ECH 03551	05-22-12	P. BRAVO



DETAIL A
SCALE 1:1

4	649.5013	DEFLECTOR	△	△△
3	649.5012	DEFLECTOR	△	△△
2	649.5011	DEFLECTOR	△	△
1	649.5010	DEFLECTOR	△	△△
FIND #	PART #	DESCRIPTION	MATL	SPEC.
QTY		PARTS LIST		
NEXT ASSY (S)		ORIGINAL DATE 11-03-11		
649.4700		DRAWN BY A. GILMAN		
		CHECKED BY P. BRAVO		
		DRAWING APPROVAL P. BRAVO		
		CONTRACT NO.		
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.00 2 PLACE DECIMALS ±.01 ANGLES ±.5°		
		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300		
		DEFLECTOR		
SEE	CHGR CODE	DWG. NO.	REV.	
B	07M26	649.5000	C	
		SCALE NONE		
		SHEET 1 OF 4		



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB046995



Supplier: ATG001-VC
A.T.G. Industries Inc
760 INDUSTRIELLE STREET
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB046995

PO Date: 9/1/20

Due Date: 9/15/20

Purchase Order

Revision:

Revision Date:

Issued By: Guerin, Kimberley
Phone: 613-632-5200 Ext: 298
kguerin@dartaero.com

Via: Ground

Pymt Terms: Net 60

Freight Terms:

Special Comments:

E-MAILED
2020-09-03

Items

Line Item	Job	Part	Drawing	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	209001	647.3916	647.3900 Rev C2	Deflector : Various STC's Issue P/O to ATG : Hard Anodize Color Black, Prime as per Dwg 647.3900 Rev. C	Firmed X2	-	9/9/20	2 pcs	0 pcs	2 pcs	\$18.91/pcs	\$37.82
	209839				Firmed	-	9/10/20	8 pcs	0 pcs	3 pcs	\$18.91/pcs	\$151.28
Sub Total:								10	0	10		\$189.10
2	211569	C45-8-5	C45-8-5 Rev K	Solenoid Cover -Issue P/O; -ANODIZE COLOR BLACK, PER IAW MIL-A-8625F TYPE 2 CLASS 2, Water sealant -Material type; 6061T6 -Certificate of Conformity is required	Firmed X10	-	9/15/20	10 pcs	0 pcs	10 pcs	\$4.97/pcs	\$49.70
3	210649	D4970-1	D4970 Rev C	Windshield Deflector - Lower : Certificate of Conformity Only Issue P/O to ATG : AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.2, PRIME AS PER IAW MIL-PRF- 23377 TYPE 1 CLASS N	Firmed X6	-	9/11/20	6 pcs	0 pcs	6 pcs	\$26.56/pcs	\$159.36
4	209030	649.5012	649 5000 Rev D	Deflector : Various STC's Issue P/O to ATG: AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.2, PRIME AS PER IAW MIL-PRF-23377 TYPE 1 CLASS N Certification of Conformity is required	Firmed X16	-	9/9/20	16 pcs	0 pcs	16 pcs	\$8.11/pcs	\$129.76

Plex 9/3/20 2:11 PM Dart.Guerin.Kimberley



Dart Aerospace Ltd.
1270 Aberdeen St
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PURCHASE ORDER

POHB046995



Items

Line Item	Job	Part	Drawing	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
5	212437	649.4815	649.4800 Rev E	Shim : Various STC's (Outsource process-Anodize per QSI017 4.1.10.1) ISSUE P/O: HARD ANODIZE, COLOR BLACK AS PER DWG.(SEE NOTE 2) PRIME IAW MIL-P-23377J TYPE1 CLASS N AS PER DWG. (SEE NOTE 2) C OF C IS REQUIRED	Firmed X32	-	9/9/20	32 pcs	0 pcs	32 pcs	\$12.96/pcs	\$414.72
									SEP 16 2020			
6	211555	SWA3-300	SWA3-300 Rev 3	Wire Clamp (Outsource process-Anodize per QSI017 4.1.10.1) -Issue P/O -ANODIZE COLOR BLACK, PER IAW MIL-A-8625F TYPE 3 CLASS 2, Water sealant -Certificate of Conformity is required	Firmed X70	-	9/11/20	20 pcs	0 pcs	20 pcs	\$4.97/pcs	\$99.40
									SEP 09 2020			
7	212431	649.5211	649.5200 C	Shim : Various STC's Outsource process-Anodize per QSI017 4.1.10.1) Issue P/O to ATG: AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.2, PRIME AS PER IAW MIL-PRF-23377 TYPE 1 CLASS N	Firmed X10	-	9/9/20	10 pcs	0 pcs	10 pcs	\$7.56/pcs	\$75.60
									SEP 16 2020			
8	212487	649.4817	649.4800 Rev E	Shim : Various STC's (Outsource process-Anodize per QSI017 4.1.10.1) Issue P/O to ATG: AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.2, PRIME AS PER IAW MIL-PRF-23377 TYPE 1 CLASS N Certification of Conformity is required	Firmed X12	-	9/9/20	12 pcs	0 pcs	12 pcs	\$7.06/pcs	\$84.72
									SEP 16 2020			
9	208270	D4821-1	D4821 Rev C	Windshield Deflector : Certificate of Conformity Only Issue P/O: Hard Anodize, Color Black and Prime as per Dwg D4821 Rev. B	Firmed X6	-	9/15/20	6 pcs	0 pcs	6 pcs	\$51.06/pcs	\$306.36
									SEP 23 2020			
	205909				Firmed X10	-	9/16/20	10 pcs	0 pcs	10 pcs	\$51.06/pcs	\$510.60
									SEP 23 2020			
Sub Total:								16	0	16		\$816.96

Plex 9/3/20 2:11 PM Dart.Guerin.Kimberley



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1270 Aberdeen St
Hawkesbury, ON
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Tel (613) 632-5200

PURCHASE ORDER

POHB046995



Items

Line Item	Job	Part	Drawing	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
10	212474	649.5212	649.5200 Rev C	Bracket Issue P/O to ATG: _____ AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.2, PRIME AS PER IAW MIL-PRF- 23377 TYPE 1 CLASS N	Firmed	-	9/9/20	4 pcs	0 pcs	4 pcs	\$9.81/pcs	\$39.24
11	212478	647.2011	647.2000 Rev N/C	Lower Strut : Various STC's Issue P/O: _____ ANODIZE AS PER DWG Finish: HARD ANODIZE IAW MIL- A-8625 TYPE III, CLASS 2, COLOUR BLACK PRIME IAW MIL- P-23377J TYPE I CLASS N	Firmed	-	9/15/20	6 pcs	0 pcs	6 pcs	\$14.21/pcs	\$85.26
12	212427	649.5010	649.5000 Rev D	Deflector : Various STC's (Outsource process-Anodize per QSI017 4.1.10.1) Issue P/O to ATG: _____ HARD ANODIZE COLOR BLACK, AND PRIME AS PER DWG 649.5000 REV. D	Firmed	-	9/9/20	8 pcs	0 pcs	8 pcs	\$34.81/pcs	\$278.48
	212476				Firmed	-	9/10/20	4 pcs	0 pcs	4 pcs	\$34.81/pcs	\$139.24
								Sub Total:	12	0	12	\$417.72

Grand Total: \$2,561.54

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit
www.dartaerospace.com for further explanation.

Please ensure to send the related invoice to hby_ap@dartaero.com.

Guerrin

Plex 9/3/20 2:11 PM Dart.Guerin.Kimberley



A.T.G. Industries Inc.
760 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Pack List

Number: 920854

Date: 22-Sep-20

Ship To

Kimberley Guerin
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		ATG Delivery	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
12 ea	Part: 649.5010 Deflector Hard Black Anodize per MIL-A-8625F, Type III, Class2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (1 - 2 mils) per drawing. Batch/Lot#: 528664 Job: 28079 PO: POHB046995	Rev: D	Expiry Date: 4/1/22 Line: 12
16 each	Part: D4821-1 Windshield Deflector Hard Black Anodize per MIL-A-8625F, Type III, Class2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (1 - 2 mils) per drawing. Batch/Lot#: 528664 Job: 28076 PO: POHB046995	Rev: C	Expiry Date: 4/1/22 Line: 9
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>SEP 22 2020</u> Certified Signature: <u>[Signature]</u> Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Made in Canada.			

DAS
32
9-89

RECEIVED

SEP 22 2020

DART AEROSPACE LTD.



A.T.G. Industries Inc.
760 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 920854

Date: 22-Sep-20

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Kimberley Guerin
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via
		ATG Delivery
Quantity	Description	
	Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.	
	Made in Canada.	

Steven Drouin

From: Jacob Becker
Sent: Tuesday, September 29, 2020 2:24 PM
To: Steven Drouin
Subject: RE: 649.5000

This is acceptable to proceed.

Regards,

JACOB BECKER
Lead Sustaining Engineer

DART AEROSPACE
T 1 760 509-1639
M 1 760 691-9108

From: Steven Drouin <sdrouin@dartaero.com>
Sent: Monday, September 28, 2020 10:53 AM
To: Jacob Becker <jbecker@dartaero.com>
Subject: 649.5000

Hi Jacob

Manufacturing is making 649.5000 to Rev. C for a costumer, but the material we have is to Rev. D specification, Can we accept this ?

Rev . D

NOTES: UNLESS OTHERWISE SPECIFIED

1. PRIMARY MATERIAL: 7075-T651 ALUMINUM PER AMS-QQ-A-250/12.
ALTERNATE MATERIAL: 7075-T651 ALUMINUM PER AMS-QQ-A-200/11.
2. FINISH: ANODIZE IAW MPP-172 SECTION 2.1;
PRETREAT IAW MPP-172 SECTION 3.1;
PRIME IAW MPP-172 SECTION 4.2: 1-2 MIL MAX.
3. DE BURR AND BREAK ALL SHARP EDGES.
4. IDENTIFY IAW MPP-120. LASER ETCH P/N AND REVISION, 12 PT. CENTURY GOTHIC.
5. ALL DIMENSIONS SHOWN PRIOR TO FINISH.
6. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5010 DEFLECTOR.SLDPRT, LAST MODIFIED 04-16-12.
7. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5012 DEFLECTOR.SLDPRT, LAST MODIFIED 11-03-11.
8. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5013 DEFLECTOR.SLDPRT, LAST MODIFIED 04-16-12.
9. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5014 DEFLECTOR.SLDPRT, LAST MODIFIED 04-04-17.

39.111

Rev C..

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12.
2. FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK;
PRETREAT PRC-DESOTO PR-148 ADHESION PROMOTER;
PRIME IAW MIL-P-23377J TYPE I CLASS N: 1-2 MIL MAX.
3. DE BURR AND BREAK ALL SHARP EDGES.
4. IDENTIFY IAW MPP-120. LASER ETCH P/N AND REVISION, 12 PT. CENTURY GOTHIC.
5. ALL DIMENSIONS SHOWN PRIOR TO FINISH.
6. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5010 DEFLECTOR.SLDPRT, LAST MODIFIED 04-16-12.
7. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5012 DEFLECTOR.SLDPRT, LAST MODIFIED 11-03-11.
8. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5013 DEFLECTOR.SLDPRT, LAST MODIFIED 04-16-12.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES D&A DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES D&A DART AEROSPACE IS PROHIBITED.

NOTES: UNLESS OTHERWISE SPECIFIED

1. PRIMARY MATERIAL: 7075-T651 ALUMINUM PER AMS-QQ-A-250/12.
ALTERNATE MATERIAL: 7075-T6511 ALUMINUM PER AMS-QQ-A-200/11.

2. FINISH: ANODIZE IAW MPP-172 SECTION 2.1;
PRETREAT IAW MPP-172 SECTION 3.1;
PRIME IAW MPP-172 SECTION 4.2; 1-2 MIL MAX.

3. DE BURR AND BREAK ALL SHARP EDGES.

4. IDENTIFY IAW MPP-120. LASER ETCH P/N AND REVISION, 12 PT. CENTURY GOTHIC.

5. ALL DIMENSIONS SHOWN PRIOR TO FINISH.

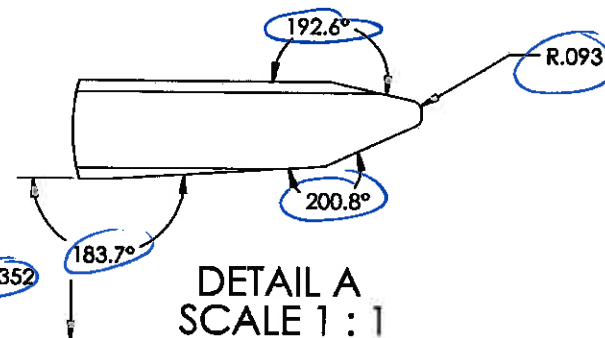
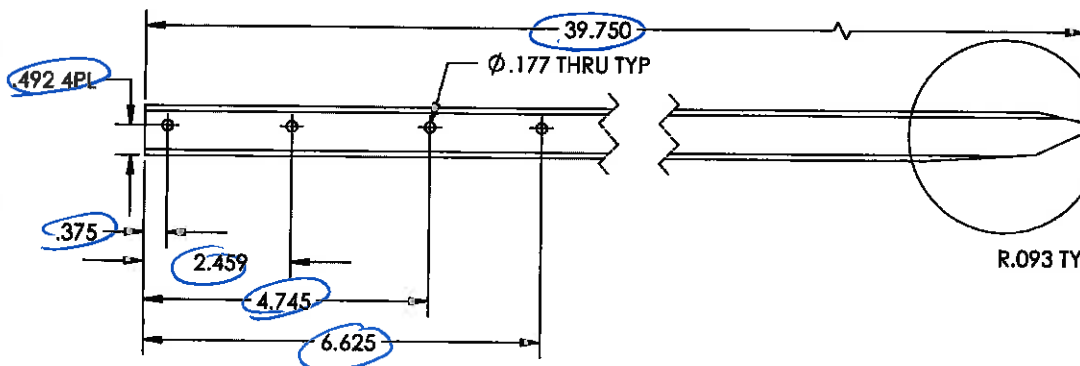
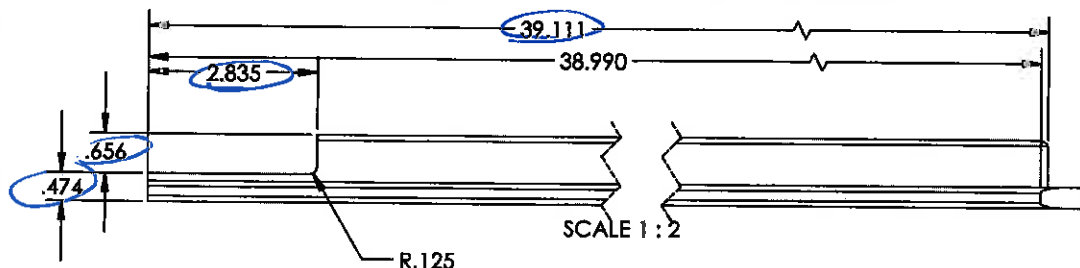
6. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5010 DEFLECTOR.SLDPRG, LAST MODIFIED 04-16-12.

7. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5012 DEFLECTOR.SLDPRG, LAST MODIFIED 11-03-11.

8. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5013 DEFLECTOR.SLDPRG, LAST MODIFIED 04-16-12.

9. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5014 DEFLECTOR.SLDPRG, LAST MODIFIED 04-04-17.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
N/C	INITIAL RELEASE	11-03-11	P. BRAVO
A	INCORPORATED ECH 0042 AND 0049	04-16-12	P. BRAVO
B	INCORPORATED ECH 0054	05-03-12	P. BRAVO
C	INCORPORATED ECH 0081	05-22-12	P. BRAVO
D	INCORPORATED ECH 0045, 0049 & 0070	01-04-17	P. BRAVO



	5	649.5014	DEFLECTOR	△	△△
	4	649.5013	DEFLECTOR	△	△△
	3	649.5012	DEFLECTOR	△	△△
	2	649.5011	DEFLECTOR	△	△
	1	649.5010	DEFLECTOR	△	△△
	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.

QTY	PARTS LIST													
NEXT ASSY (S)	<table border="0"> <tr> <td>649.4700</td> <td> ORIGINAL DATE 11-03-11 DRAWN BY A. GUAN CHECKED BY P. BRAVO DRAWING APPROVAL P. BRAVO CONTRACT NO. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1 PLACE DECIMALS .010 2 PLACE DECIMALS .005 ANGLES ± .5° </td> <td> DART AEROSPACE AFKAL INDUSTRIES, INC. 3030 ENTERPRISE CT. SUITE A VISTA, CA 92081 (760) 724-5300 </td> </tr> </table>					649.4700	ORIGINAL DATE 11-03-11 DRAWN BY A. GUAN CHECKED BY P. BRAVO DRAWING APPROVAL P. BRAVO CONTRACT NO. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1 PLACE DECIMALS .010 2 PLACE DECIMALS .005 ANGLES ± .5°	DART AEROSPACE AFKAL INDUSTRIES, INC. 3030 ENTERPRISE CT. SUITE A VISTA, CA 92081 (760) 724-5300						
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	<table border="0"> <tr> <td colspan="2">DEFLECTOR</td> <td>REV. D</td> </tr> <tr> <td>REV. B</td> <td>CAGE CODE 07M126</td> <td>QTY. NO. 649.5000</td> </tr> <tr> <td colspan="2">SCALE NONE</td> <td>SHEET 1 OF 4</td> </tr> </table>					DEFLECTOR		REV. D	REV. B	CAGE CODE 07M126	QTY. NO. 649.5000	SCALE NONE		SHEET 1 OF 4
DEFLECTOR		REV. D												
REV. B	CAGE CODE 07M126	QTY. NO. 649.5000												
SCALE NONE		SHEET 1 OF 4												

Entered: LR Date: **OCT 01 2020**

NCR No. 20-8508

WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

Route update only



Job: <u>212476</u>		DISPOSITION		DEPARTMENT/PROCESS							
Part No. <u>619.5010</u>		Rework ☐ Scrap ☐ Use-as-is ☒		Skid-tube ☐ Machining ☐ Large Fab ☐		Cross tube ☐ Small Fab ☐ Finishing ☐		Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐		Engineering ☒ Water Jet ☐ Supplier ☐ Quality ☐	
Date : <u>20-9-30</u>		Sequence #: <u>100</u>		QTY Affected : <u>4</u>				MRB (QSI042) DAS 9 9-88 <u>20-9-30</u>			
Description Work Order Deviation				Disposition				Completed By DAS 01 9-88 <u>20-9-30</u>			
Parts made as per Rev Parts made to Rev C as per request by customers. - NO dimension change - material use is per AMS-QQ-A-200/11				Acceptable per attach email AMS-QQ-A-200 is now acceptable per drawing rev D.				Lead hand / Supervisor DAS 9 9-88 <u>20-9-30</u>			
Root Cause				FAULT CATEGORY							
Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☒ Product Improvement ☐ Process Improvement ☐ Human Factors ☐				Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ ☒ Drawing Finish ☐ Part Lost/Missing ☐ Misread ☐							
Other/Details:											